PRESIDENT'S MESSAGE

LICA is going to sponsor a flea market in September. It won't be accompanied by a great indoor commercial bourse like the TCF. It probably won't be as large as the twice-yearly LIMARC flea market or the Newark flea market/show. What we hope it will be will be fun...and mutually profitable to the vendors, the attendees, and to LICA.

LICA can do many exciting and meaningful things if we can increase our income. The obvious benefits are a bigger STACK, a more sophisticated CBBS, and the corporate acquisition of extraordinary hardware and software as may occasionally become available. Our membership dues are only $12 per year, yet nearly 40% of the attendees at our General and User Group meetings are not currently paid-up members of the overall Association!

We can't change the world - and we can't change human nature. What we can do is work like hell on the orgganization and planning, promotion, and ultimate operation of the LICA flea market. I don't want to draft anyone - what I'm looking for are sincerely motivated volunteers like the first few who constituted the initial survey committee which came up with at least one suitable site, and two probable dates for this thing. We'll need plenty of help up to and including the actual date in the Fall.

Both the Suffolk County Computer Association and the New York Amateur Computer Club have contacted us and requested to be included in our plans. Come on, folks. Let's make this "first annual" event the success it should be.

===

MONTHLY MEETING

===

LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500, The New York Institute of Technology, Old Westbury Campus. The APRIL meeting will take place on the 16th. The speaker will be RALPH KENYON, who will speak about and demonstrate "Little Ada". This is a complete compiler system for a limited subset of the new DOD language. Mr. Kenyon will offer copies of the DOD books containing complete outlines for ADA. Members can refer to the last 4 issues of "MICROSYSTEMS" in which they will find a 4 part article,(by Ralph Kenyon), documenting the theory, philosophy, & codes for "Little Ada".

Harry Phillips announced that the Long Island Computer Association is now filed as a non-profit corporation in the State of New York.

It was decided that our flea market will be held September 18th or 25th. The exact location will be announced later. Anyone wishing to help out should contact a member of the committee (Aileen Harrison, Phil Cochem, or Larry Adkins) or an officer of LICA.

LICA now has the LEXICON MODEM to rent to members by the month. Anyone interested in renting it should contact Aileen Harrison.

The CP/M Users Group, chaired by Bob Kowitt, will begin meeting again.

Augie Schwabb announced that he will be stepping down as leader of the S-100 subgroup. Augie's responsibilities will be assumed by his co-chairman, Richard Wilson. For five years, Augie has unselfishly brought his wit, generosity and ability to the S-100 sub-group. This, plus his relentless and extremely capable ability to run thoroughly engrossing meetings, with a heaping dose of qualified speakers, enlivened discussions, probing questions, etc. has made the S-100 club a model for any other organization, amateur or professional. From the membership of S-100 ....THANKS AUGIE.

Two months ago, Ron Richards was invited (on very short notice) to speak to LICA on the subject of "rotating media." His treatment of floppy disks created so much interest that he was invited back to continue his discussion. His topic at this meeting was "Hard Disk Technology".

Ron told us that hard disks will always be more expensive than floppy disk, but compensate because of their great storage capacity and lack of wear phenomena. The information transfer rate is 10 times faster than a floppy. The rotation speed is between 1200 and 2400 RPM. In response to the enquiry of a member, he distinguished between the terms "hard disk" and "Winchester". The Winchester is defined by the type of head and the method by which the head flys close to the disk. The enviroment of the disk must be hyper-clean, as dirt or oxide coating destroys the aerodynamics of the head and causes the head to crash onto the disk, (a "disk-crash").

He discussed strategies for a backup of a hard disk system and pointed out the advantages of tape as opposed to floppies for a backup. Ron spoke of the problems of removable hard disk, which could be a serviceman's nightmare.

Ron's reply to a question concerning the cleaning of read-write heads inspired our editor to pick up his seldomly used screw driver and clean his heads, (he has three). Unfortunately, when he finished reassembling, there was a part left over. In his attempt to put it back, the part broke. With the able assistance of co-member Angelo Tulumello, via Ma Bell, he was able to reconstruct and repair the broken part. Whether our editor is a hack or a hacker we believe that he now has a clean head.

(But not neccesarily aligned. ED)

NOTICES

The New York Computer Show will be held Thursday through Sunday April 22-25, at Nassau Coliseum, Uniondale, Long Island. Show hours are 11:AM to 6:PM daily. The show is open to the public and admission is $5 for adults, $3 for children. The exposition features computers for business, industry, scientific and engineering applications, government, education, home and personal use.

There will be 80,000 square feet of display space, containing over 50 million dollars worth of equipment. On display will be computers ranging in cost from $75 to $75,000. The latest in software will also be introduced Among the participating manufacturers are IBM, NEC, Digital, Wang, Radio Shack, Atari, Commodore, Quantel, Heathkit, Apple, and CPT.

Dealers and retailers from Long Island will be selling right at the show. For more information, contact Northeast Expositions, 824 Boylston Street, Chestnut Hill MA 02167. TEL(617)-739 2000

68000 Micro News

A new magazine has been announced which will deal exclusively with the Motorola 68000 microprocessor and related hardware and software products. The 68000 is available from several companys on the S-100 bus and Intel Multibus. The magazine "68000 Micro News" is looking for articles, letters and people who are willing to be contributing editors. Subscription rates are $25 per year for 12 issues. Mr. Dave Bollman, (president), can be reached on computer bulletin boards (215) 435-3388 (24 hour) or (215) 398-3937 (24 hour RBBS) or by phone at (215) 439-8888.

APPLE, TRS-80 & OTHER MICROCOMPUTER OWNERS

SUBJECT: COMPUTER SHOW - NEW YORK CITY - APRIL 2,3,4, 1982

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EPSON 80-GRAFTRAX MODE CODES 2/28/82 E.M.F.

MODE	NORMAL	EMPHASIZED	DOUBLE	DOUBLE-EMPHAS.
Speed	100%	50%	50%	25%
Features	.....	feeds 1/216 hits 2X		up 1/216 & 2X

----> EXPANDED double width 40 CPL 5 CPI 12 dots/chr <-----
                auto shut-off after EACH line.

Turn ON	CHR$(27)'S'	CHR$(27)'E'	CHR$(27)'G'	'E' & 'G'
ON	CHR$(14)			
Turn OFF	CHR$(27)'T'	CHR$(27)'F'	CHR$(27)'H'	'F' & 'H'
OFF	CHR$(20)			

----> NORMAL standard 80 CPL 10 CPI 6 dots/chr <-------------

Turn ON	CHR$(27)'5'	CHR$(27)'E'	CHR$(27)'G'	'E' & 'G'
OFF	CHR$(27)'@' <-(@ resets ALL)			

----> CONDENSED-EXPANDED 66 CPL 8.25 CPI 7dots/chr <--------
                Expanded auto shut-off after each line.

Turn ON	C$(14)C$(15)	...NOT...	CHR$(27)'G'	....NOT....
OFF	C$(18)c$(20)	..USED...	CHR$(27)'H'	...USED....

----> CONDENSED small 132 CPL 16.5 CPI 3.5 dots/chr <-----

Turn ON	CHR$(27)'P'	...NOT...	CHR$(27)'G'	....NOT....
ON	CHR$(15)	..USED...		...USED....
Turn OFF	CHR$(27)'Q'	....	CHR$(27)'H'	....
OFF	CHR$(18)	....		....

-> ITALICS ON=CHR$(27)'4' OFF=CHR$(27)'5' use with any above.
-> Feed 8 lines/in. = CHR$(27)'0' = .125in.= 9 dots
->   6 lines/in. = CHR$(27)'2' = .168in.= 12 dots
->   7/72 lines/in. = CHR$(27)'1' = .098in.= 7 dots

duplicate-_

Modify EPSON MX-80 Cable to defeat Out-Of-Paper switch
                by: Ed Fischer

sending ESC 8 will DEFEAT Out-Of-Paper switch.
sending ESC 9 will let switch function normally
    This worked on my MX-80 F/T with and without GRAFTRAX
1. Cut wire going to pin 12 of the MX-80 conector.
2. Cut wire going to pin 16 of the MX-80 conector.
3. Tie wire from TRS that WAS going to MX pin 12, TO MX pin 16.
4. DO NOT conect the lose wires A and B to anything.
5. Tape (insulate) exposed ends of wires A and B.

```
Epson                                    TRS-80
Connector                                Connector
Pin No.                                  Pin No.

12 ----------------X cut A    /------------ 'out of paper' 23
                           /
                 tie> / <together
                    /
16 ------------------------/   B cut X------ 'logic ground' 31
```

* Correction submitted for my Mailist Routine printed in the March edition of The Stack. Line 150 should have read: 150 A$=N$(B)
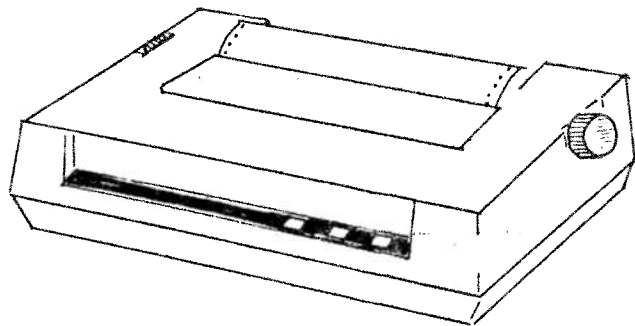In response to some criticism, the backslash "\" is a line divider. I believe that many systems use a semi-colon for the same purpose. Poke 0,160 means "Blank the Cursor". Last but not least, "---- Screen Display Below ---" was not part of the program ! The Screen Display was from my "Real Program". The code was prepared for The Stack ie. they didn't match .exactly. The program is used to create a "Command File",(CP/M "Submit"), which allows the user to type a number plus an identifier for searching a Mailist for a particular name. I use many disks for the Mailist and don not want to remember the names of all the files, nor do I want to answer all of the prompts which are part of the Mailist program. The command file does all of the work after it has gotten the two pieces of information requested.

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Jultronics has offered LICA a quantity discount on the printers advertised below. Quantity (2), $50.00 plus $25.00 for any additional. The C.Itoh Comet I (Model 8300) is advertised by discounters in Byte Magazine for $450.

****

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```
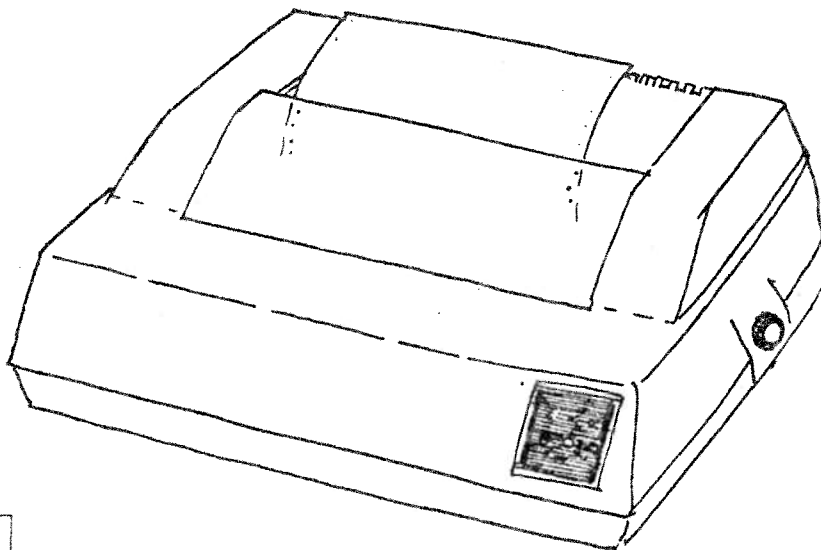
****

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```
100 PRINT"     PROGRAMMED BY PHILIP COCHEMS  :NOV.1981
110 PRINT"      ANALYSIS OF HOME OWNERSHIP COSTS
120 PRINT"FOR TAXPAYERS USING ITEMIZED DEDUCTIONS
130 INPUT"PREPARED FOR";B$
140 INPUT"BY:";A$
150 INPUT"SALE PRICE OF HOME";SP
160 INPUT"CASH REQUIRED";DP
170 P=SP-DP:N=12
180 INPUT"NUMBER OF YEARS";Y
190 INPUT"INTEREST RATE";I
200 R=((I/100)*P/N)/(1-1/((I/100)/N+1)↑(N*Y))
210 PRINT"LOAN.....YEARS...INTER.RATE = SUB-TOTAL
220 PRINTP,Y,I,INT(R)".00
230 INPUT"(APPROX.) MONTHLY DEPOSIT TAXES";TD
240 INPUT"(APPROX.) MONTHLY PAYMT INSURANCE";ID
250 MP=R+TD+ID:PRINT"TOTAL MONTHLY PAYMENT......$"MP
260 II=I/100
270 PRINT"EXPENSE ITEMS FOR INCOME TAX PURPOSES
280 MI=P*II/N
290 PRINT"FIRST MONTHS INTEREST:$"MI
300 PRINT"MONTHLY TAX DEPOSIT:  $"TD
310 SUB=(P*II/N)+TD
320 PRINT"TOTAL  DEDUCTIONS......$"SUB
330 INPUT"ENTER YOUR TAX BRACKET";TB
340 D=SUB*TB/100
350 PRINT"TAX BRACKET...............:"TB"%
360 PRINT"MONTHLY CASH SAVINGS......$"D
370 PRINT"ACTUAL MONTHLY PAYMENT....$"MP-D
380 PRINT"ACTUAL MONTHLY COST.......$"MI-R
READY.
```

←――――――――――――――→

```
10 REM        MOVE DATA LINES TO A FILE
20 REM COMMODORE PET 4.0  PHILIP COCHEMS 3/23/82
100 DATA A,B,C,D,E,F,G
110 DATA AA,BB,CC,DD,EE,FF,GG
120 DATA 1,2,3,4,5,6,7
130 DATA 11,22,33,44,55,66,77
140 DATA #,#,#,#,#,#,#
145 :
150 REM ↑  DATA TO WRITE TO FILE  ↑
155 :
1000 DOPEN#1,"DFILE",W:REM OPEN DISK FILE TO WRITE
1020 IFDS<>0THENPRINTDS$:STOP:REM DISK ERROR CHECK
1040 FORI=1TO7
1060 READA$(I):PRINTA$(I):REM READ DATA LINES
1080 PRINT#1,A$(1):REM PRINT TO DISK OR TAPE
1100 PRINT#1,A$(2)
1120 PRINT#1,A$(3)
1140 PRINT#1,A$(4)
1160 PRINT#1,A$(5)
1180 PRINT#1,A$(6)
1200 PRINT#1,A$(7)
1220 REM "#"= LAST DATA LINE
1240 IFA$(1)="#"THENDCLOSE#1:END

1260 GOTO1040
2000 REM READ BACK DATA IN FILE
2020 DOPEN#1,"DFILE"
2040 FOR I = 1 TO 7
2050 INPUT#1,A$(I)
2070 IF A$(1)="#"THENDCLOSE#1:END
2090 PRINTA$(I)
2110 NEXTI
2130 GOTO 2040
READY.
```
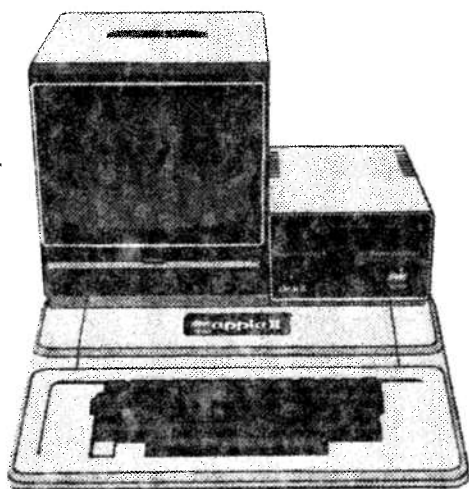
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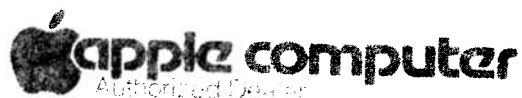
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There really isn't enough room on the page, but, I will try this anyway.
I type a catalog of Lp records which includes LABELS (Capitol, Columbia,etc).   This
routine saves the name of each label, prints them in Alfa order on the screen, with
no spill over,(CR in correct place), & I have a choice of typing a number, a CR, or a
new name. The only PITA was 20TH CENTURY FOX. Any questions ? (Al Levy)

REM Dimension L$ (50 times)(20 characters Maximum)L1$(1 time)(20 char. Max)etc.
```
        10 DIM L$(50:20),L1$(1:20),L2$(1:20),L3$(1:20),L4$(1:20)\Z=0
```
REM Z$=Clear the screen - POKE 0,160=Knock Out Cursor
```
        20 PRINT Z$\POKE0,160\Z0=0\IF Z=0 THEN GOTO 100
```
REM Z=0,If this is 1st time, No sense in Alphabetizing. Backslash=Split Up Line For
Multiple Commands. PLOT=Print On Top Line of Video, No Cursor
```
        30 PLOT 0,45,0\FOR Z8=1 TO Z\Z9=LEN(L$(Z8))\Z0=Z9+INT(Z8/10)+3
```
REM Since Z increments when a NEW ITEM is entered,Subroutine "works"(Z)times.
```
        50 Z2=Z2+Z0\IF Z2>63 THEN PRINT\Z2=Z9+INT(Z8/10)+3
```
REM Z9=Length of EACH L$.   EX:L$(1)="hello",Z9=5 characters
REM Z0=Length of This Item + Counter Divided by 10 and 3 added
REM Z2=Total Length Of All Items Up To This Point
REM If TOTAL characters is more than 63 then Print a CR
REM A comma keeps PRINT(s) on same line.
```
        60 PRINT Z8,".",L$(Z8),\NEXT\PRINT\Z9,Z0,Z2=0
        70 FOR Y=PEEK(0)TO PEEK(0)+63\POKE Y,27\NEXT\PRINT
```
REM PEEK(0)=Location of Cursor :
REM POKE Y,27=Print Cursor Character From Normal Screen Location
REM Until End Of Line(Peek 0+63)...Next Line
REM In other Words, "Draw A White Line" Across the Screen.
```
        80 PRINT"1.Pick A Number From Above"\PRINT"2.CR=Same As Last (",L3$,")"
        100 INPUT"3.Type New Label Name:",L$(Z+1)
        110 IF Z=0 AND L$(Z+1)="" THEN PRINT Z$\GOTO 100
```
REM If 1st Time and User Typed CR (Carraige Return)
REM Then Clear The Screen and Start Over
```
        120 POKE 0,160\PLOT 30,3,0\PRINT"Is This Correct ? ",
        130 INPUT1"",Y$\POKE0,160\REM INPUT1(No CR after answer)
        140 FOR G=7103 TO 7040 STEP-1\POKE G,160\NEXT
```
REM Line Above ERASES the question from the display.
```
        150 IF Y$="" THEN GOTO 120
        160 R0=ASC(Y$)\IF R0=78 OR R0=110 THEN GOTO 20\REM "N" or "n"
        170 IF R0=89 OR R0=121 THEN PRINT Z$\POKE0,160\GOTO 190\REM "Y" or "y"
        180 GOTO 120\REM Wrong Input, Not A Yes OR a No !
        190 IF L$(Z+1)="" THEN L$(Z+1)=L$(Z)\GOTO 400\REM Same as last
        200 L2$=L$(Z+1)\L3$=L2$\V2=LEN(L2$)\REM Save String(L$(Z+1)as L2$ and L3$
        210 FOR Y=1 TO V2\REM You typed a Control Char. OR some other wEirD tHiNg.
        220 IF MID$(L2$,Y,Y)<" " THEN PRINT Z$\POKE0,160\GOTO 20
        230 NEXT\REM- You had better try again !
        240 IF ASC(L$(Z+1))>57 THEN GOTO 290\REM 1ST char. isn't a number
        250 IF V2>2 THEN GOTO 290\REM The Number is Longer than 2 digits
        260 V=VAL(L$(Z+1))\FOR Y=1 TO Z\IF V=Y THEN GOTO 280
```
REM It is a legit Number,You have picked one of the items from the list
```
        270 NEXT\PRINT Z$\POKE0,160\GOTO 20\REM Blew it again !
        280 L$(Z+1)=L$(V)\L3$=L$(V)\L2$=L3$\GOTO 400\REM Got your number baby !
        290 Z1=0
        300 FOR Y=1 TO Z\IF L$(Z+1)=L$(Y) THEN GOTO 400
```
REM You Typed In The Same Thing as before Dummy.
```
        310 IF L$(Y)<L$(Y+1) THEN GOTO 330\REM Start Sorting
        320 L1$=L$(Y)\L2$=L$(Y+1)\L$(Y)=L2$\L$(Y+1)=L1$\Trade Off
        330 NEXT\Z1=Z1+1\IF Z1<Z+1 THEN GOTO 300\REM Keep Sorting Till Done.
        340 Z=Z+1
        400 REM Goto Next Routine In Program
```

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TCF-82

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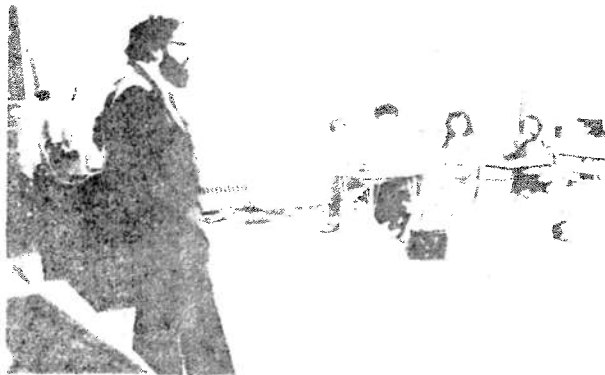10 AM TO 4 PM, SUNDAY, 18

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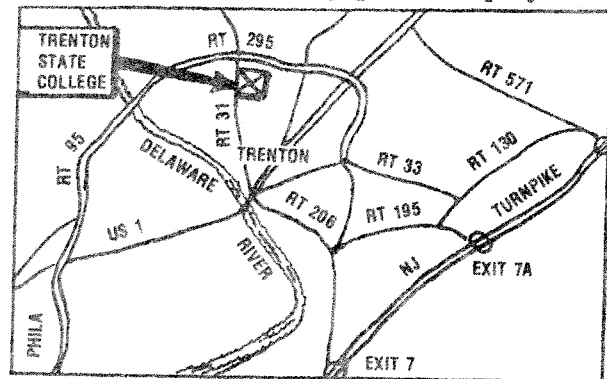5 acres of space (5/spot, no electricity).

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SUB-GROUP	CHAIRMEN	PHONE(516)	Meetings Each Month
S-100	Richard Wilson	747-4241	2nd Friday 7:30
TRS-80	Bob Zito	822-4031	2nd & 3rd Friday 7:00
6502	Steve Perry	744-6462	
680X	Roger Kaucher	796-8764	

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